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**Term:**

Digital Command Control AND (bipolar OR bi-polar)

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	Digital Command Control AND (bipolar OR bi-polar)	6	L2
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	Digital Command Control	59	L1

S7  
?t s7/9/1

1 PN="US 5855004"

7/9/1

DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat  
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Basic Patent (No,Kind,Date): US 5855004 A 19981229 <No. of Patents: 001>

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5855004 A 19981229

SOUND RECORDING AND REPRODUCTION SYSTEM FOR MODEL TRAIN USING  
INTEGRATED DIGITAL COMMAND CONTROL (English)

Patent Assignee: NOVOSEL MICHAEL J (US); FLESZEWSKI III VINCENT S  
(US); BOLES KELLY (US)

Author (Inventor): NOVOSEL MICHAEL J (US); FLESZEWSKI III VINCENT S  
(US); BOLES KELLY (US)

Priority (No,Kind,Date): US 851200 A 19970505; US 289257 B2  
19940811

Applc (No,Kind,Date): US 851200 A 19970505

National Class: \* 704272000; 704201000; 105001500

IPC: \* G10L-009/18; A63H-019/14

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Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5855004 P 19940811 US AA PRIORITY  
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US 5855004 P 19970505 US AE APPLICATION DATA (PATENT)  
(APPL. DATA (PATENT))

US 851200 A 19970505

US 5855004 P 19971006 US AS02 ASSIGNMENT OF ASSIGNOR'S  
INTEREST

REAL RAIL EFFECTS, INC. 4220 NORTH MARMORA  
CHICAGO, ILLINOIS 60634 ; NOVOSEL, MICHAEL J.  
: 19970430; FLESZEWSKI, VINCENT S. III :  
19970505; BOLES, KELLY : 19970930

US 5855004 P 19981229 US A PATENT

US 5855004 P 20000815 US RF REISSUE APPLICATION FILED  
(REISSUE APPL. FILED)  
20000609

?

?us5855004/pn

LGST	1
CRXX	1
LITA	0
PAST	1

\*\* SS 7 : Results 3

Search statement 8

?prt ss7 max 1-3

1/3 LGST (1/1) - (C) LEGSTAT  
PN - US 5855004 [US5855004]  
AP - US 851200/97 19970505 [1997US-0851200]  
DT - US-P  
ACT - 19970505 US/AE-A  
APPLICATION DATA (PATENT)  
{US 851200/97 19970505 [1997US-0851200]}  
- 19971006 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
REAL RAIL EFFECTS, INC. 4220 NORTH MARMORA CHICAGO, ILLINOIS 60634 \*  
NOVOSEL, MICHAEL J. : 19970430; FLESZEWSKI, VINCENT S. III : 19970505;  
BOLES, KELLY : 19970930  
- 19981229 US/A  
PATENT  
- 20000815 US/RF  
REISSUE APPLICATION FILED  
20000609  
UP - 2000-34

2/3 CRXX (1/1) - (C) CLAIMS/RRX  
AN - 3092308  
PN - 5,855,004 A 19981229 [US5855004]  
PA - Boles, Kelly; Fleszewski, Vincent S III; Novosel, Michael J  
PT - E (Electrical)  
ACT - 19971006 REASSIGNED  
ASSIGNMENT OF ASSIGNOR'S INTEREST

Assignor: NOVOSEL, MICHAEL J. DATE SIGNED: 04/30/1997  
FLESZEWSKI, VINCENT S. III DATE SIGNED: 05/05/1997  
BOLES, KELLY DATE SIGNED: 09/30/1997

Assignee: REAL RAIL EFFECTS, INC. 4220 NORTH MARMORA CHICAGO, ILLINOIS 60634

Reel 008748/Frame 0083

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- 20000609 REISSUE REQUESTED  
Issue Date of O.G.: 20000815

Reissue Request Number: 09/592461  
Examination Group responsible for Reissue product: 2741

UP - 1999-00  
UACT- 2000-08-15

3/3 PAST (1/1) - (C) PAST  
AN - 200033-001341  
PN - 5855004 A [US5855004]  
DT - A (UTILITY)  
OG - 2000-08-15  
CO - REA  
ACT - REISSUE APPLICATION FILED  
SH - REISSUE APPLICATION FILED

Search statement 8

LEVEL - 1 OF 1 PATENT

5,855,004

<=2> GET 1st DRAWING SHEET OF 20

Dec. 29, 1998

Sound recording and reproduction system for model train  
using integrated digital command control

REISSUE: Reissue Application filed Jun. 9, 2000 (O.G. Aug. 15, 2000) Ex. Gp.:  
2741; Re. S.N. 09/592,461

CORE TERMS: locomotive, digital, train, sound effects, packet, chip, sound  
effect, sensor, variable, micro-controller...

LEXIS-NEXIS  
Library: PATENT  
File: ALL